

NOTES TO ARCHITECT

SECTION 09330 - QUARRY TILE

PART 1 - GENERAL

1.01 GENERAL CONDITIONS

As specified in Section 00800.

1.02 SUBMITTALS

- A. Samples: Samples of various tiles and marble required shall be submitted to the Engineer for approval and for color and pattern selection. Samples shall be identified as to grade and manufacturer.
- B. Certificate: Before installation of quarry tile, the Standard Form of Master Grade Certificate signed by the Contractor and Manufacturer stating grade and kind of tile shall be submitted to the Engineer. All packages of tile shall be delivered to the job in sealed cartons bearing grade seals in conformance with U.S. Department of Commerce Simplified Practice Recommendation R61-61.

This specification covers quarry tile applied by conventional mortar setting bed method, not thin-set adhesive nor dry-set mortar methods. The use of this specification must be tailored to your job.

If this specification is used, coordinate tile details with it. Draw details at threshold, wainscot, gutters, etc.

If threshold is cement or marble, include intended type in the specifications.

Be sure to include LATH AND PLASTER SECTION with appropriate specifications for the following:

Mortar set tile:
Portland Cement
scratch coat on
metal lath, or
wire mesh (paper-
backed), masonry
or concrete.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Asbestos Prohibition: No asbestos containing materials shall be used under this section. The Contractor shall insure that all materials incorporated in the project are asbestos-free unless specifically approved in writing by the Engineer.
- B. Quarry Tile:
 - 1. Quarry tile shall be 6" x 6" x 1/2" thick, standard grade, ground 4 sides after firing, with regular smooth surface. Tile shall conform to the U.S. Department of Commerce Simplified Practice Recommendation R61-61 and Fed. Spec. SS-T-308b.

In kitchens, use ceramic tile in lieu of quarry tile for wainscot.

2. All trim shapes shall be provided as detailed and as required such as cove base, bullnose, etc., to achieve a neat complete installation.
- C. Ground for Quarry Tile Floor: Gray epoxy grout complying with formula A Tile Council of America.
- D. Sealer: Hillyard Sealer #341, Tera-Seal, or approved equal.
- E. Marble Threshold: Domestic Group "A" as classified by Marble Institute of America. Finish sand-rubbed or honed; size as detailed.
- F. Cement: Portland Cement conforming to the requirements of ASTM C-150, Type 1.
- G. Waterproof Admixture: Approved integral waterproof admixture.
- H. Sand: Conforming to ASTM C-144.
- I. Hydrated Lime: Conforming to ASTM C-206, Type S or ASTM C-207, Type S.
- J. Water: Fresh, clean and drinkable.
- K. Reinforcing Wire Mesh: 2 x 2 - 16/16 welded wire fabric.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Before any work is begun, the Quarry Tile Contractor shall inspect the walls and floors on which tile work is to be applied. Such surface shall be sound, clean, free of oily film, and in proper condition; if not, the Quarry Tile Contractor should report defective conditions to the Contractor for corrective measures. Proceeding with tile work will imply acceptance of the surface by the Quarry Tile Contractor. Scratch coats or mortar setting beds shall not be applied until necessary grounds, hangers, anchors or other items to receive plumbing fixtures or other fittings of any kind which are to be secured against the tile surface have been installed properly. Coordinate work with other trades as necessary.

3.02 INSTALLATION

A. Quarry Tile

1. Installation of quarry tile shall be in accordance with ANSI A108.3.
2. Cement Mortar shall be freshly prepared and uniformly mixed in a drum-type batch mixer for at least 3 minutes in the following proportion by volume. No retempering of mortar will be permitted. Mortar that has reached its initial set shall be discarded.

a. For mortar setting bed on floors:

1 part portland cement

4 to 5 parts sand

Waterproof admixture in accordance with manufacturer's specifications.

3. Setting Procedures:

- a. On floors, apply mortar setting bed not less than 3/4" thick, over an area no greater than can be covered with tile before the initial set. If mortar setting bed is to be applied directly on concrete surface, first saturate the surface with water but do not allow free water to appear on the surface. Embed reinforcing wire mesh in the middle of the setting bed. Screed, tamp and slope the mortar setting bed toward the floor drains a minimum of 1/8" per foot (and/or slope as shown).

Use a 3/32" to 1/16" thick skim coat of neat portland cement mixed to the consistency of a pasty thick cream to bond tile to the mortar setting bed. Press and beat the sheets of mounted tiles into the plastic mortar setting bed until exactly to the required slope or level as fixed by straight edges accurately placed at regular intervals. Joints shall be of uniform width of 5/16" or as determined by the spacers on the tiles.

B. Threshold:

1. Marble threshold shall be installed similar to quarry tile as described hereinbefore where shown on plans. Clean as recommended by the manufacturer.
2. Cement threshold shall be installed where shown on drawings and shall be shaped and troweled smooth.

C. Grouting and Pointing of Joints: Grout for floor joints shall be gray epoxy complying with formula AAR-2, acid and alkali resistant grout, of the Tile Council of America. Fill joints to the full depth and level with surface of tile in strict accordance with manufacturer's recommendations.

D. Application of Sealers on Quarry Tile Floor:

1. Factory applied wax on the quarry tile shall be thoroughly removed by applying hot water or by other methods recommended by the manufacturer.
2. First apply one coat Hillyard Tera-Seal at the rate of 600 square feet per gallon. Allow to dry.
3. Then apply one coat of Hillyard Sealer #341 at the rate of 1,200 square feet per gallon.
4. Apply the above sealers using lamb's wool, not by brushing or other methods.

E. Cleaning: At completion of work, clean tile surfaces, replace broken tile, do necessary repointing and protect surfaces with heavy paper from damage. Wash floor down with water and mop just before acceptance of project.

END OF SECTION